



American Association of Veterinary Immunologists

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Message from the AAVI President: Crystal Loving



We need you!!!!

WE NEED YOU..... Maybe you hear this phrase a lot, often followed by the word 'to' ("We need you to..."), with the enormity of "volun-told" tasks you're "asked" to complete. Maybe it's something you wish you heard more

frequently, given all the tasks you do complete, in addition to your day job of scientific discovery and training! At the risk of adding another task to your list, I'm going to tell you now that **WE NEED YOU**, that our foundation and progress is dependent you and since you've read this far, it's apparent AAVI matters to you!

First, it's that season; we're all making lists. Please consider adding AAVI to your list. Completion of this task can be what you want it to be, whether it's paying your dues (or getting current on your dues), encouraging your veterinary immunology colleagues and students to join, deciding to actively participate at the board or business level, or reminding stakeholders the contribution AAVI makes to their well-being.

AAVI is a strong supporter of travel and presentation competitions for trainees, and these are the people that will eventually be our colleagues, working in government, academia, or industry in the field of veterinary immunology. Thus, whether it's a company that makes veterinary vaccines or biologics, an extension instructor, or a production manager, tell them about AAVI and how they can help support our mission by supporting our organization. This self-perpetuating cycle will ensure our continued success, as well as attract strong candidates to the field of veterinary immunology.

Second, I ask that you spend a few minutes to become familiar with AAVI and consider how you can actively participate in our organization. I realize I did this in the paragraph above, but what I mean now takes more than just a few clicks on the computer to pay your dues, or speak a few sentences in passing to your colleagues to educate them about AAVI. Yes, I'm asking for what most of us don't have to give – more! Please consider serving as a member of the board, even if you've done so in the past. We are a small community; many of us know each other, if not personally, at least by name and area of expertise. We need your expertise in science, but also in policy and historical perspective to maintain our organization's capacity to have a voice in bigger scientific arenas. We continue to receive support from the American Association of Immunologists (AAI),

including the opportunity to co-sponsor a symposium at the annual AAVI meeting, for which we are grateful. This provides the chance to showcase the field of veterinary immunology, and demonstrate the importance of veterinary immunology to animal health, and also human health, in a bigger scientific arena.

Along these lines, I believe a major demonstration of our contribution to immunology research was highlighted in January 2015, with the Keystone Symposium “Immunity to Veterinary Pathogens: Informing Vaccine Development” held in Keystone, Colorado. This meeting was the extensive work of fellow veterinary immunologists William Golde, Wendy Brown, and Ivan Morrison, and we thank them for their work and dedication to the field. I’ve heard many of my colleagues say they feel like veterinary immunologists spend their time at such meetings telling each other what they already know – essentially, the importance of the field of veterinary immunology to the greater field of immunology. While I can appreciate this feeling, especially from the more senior scientists in the field, I would also like to offer another viewpoint for consideration. Perhaps if you share this sentiment, it as an indication that you’re now at the stage of your career when your participation isn’t as much about you (and I mean this in the kindest way), but about the trainees in attendance. These trainees include students, postdocs, and junior faculty who have likely read your papers, hope you stop by their poster, or want to ask you about a reagent or protocol from your lab, or even just have a drink to discuss career options and get your advice. Your experience and expertise has significant value, if not to just the crowd but a few particular individuals. As a junior scientist, the Keystone meeting was an amazing opportunity for me to put names to faces (though I’ve embarrassingly remembered a few incorrectly!), meet those whose papers I’ve read or presented at journal club, and learn more about veterinary immunology

outside of my bubble (because we are all a voice for each other). The enthusiasm for their work, and seeing that others are mucking through the trials and tribulations of discovery, provide such motivation and resilience! At the end of the day we are reminded that we’re all just people trying to make a difference!

So I reiterate – **WE NEED YOU!** We need you to add AAVI to your list. We need your obvious support as a dues-paying member, but also as-active-as-a-member-as-you-can-be. This comes in various sizes and flavors, including voting at election time, serving on the board, participating in veterinary immunology based meetings, taking your veterinary immunology to the “big” meetings, judging posters or presentations when asked, relentlessly training the next generation of veterinary immunologists, or putting yourself out there even when it may not seem worth it. I hope many of you are making plans to attend IVIS (International Veterinary Immunology Symposium) in August, 2016, in The Gold Coast, Australia. It’s our opportunity to come together as a community, to support each other and the next generation of veterinary immunologists.

**2015 AAVI Distinguished
Veterinary Immunologist:
Dr. Philip Griebel**



Dr. Griebel is a prolific author of many high-impact papers in veterinary immunology, including *Nature* and *Trends in Immunology*.

He is a leader in the field of vaccine research at one of the most successful vaccine research institutes (Vaccine and Infectious Disease Organization – VIDO) in North America, and currently holds a Tier I (Senior) Canada Research Chair (CRC) in Neonatal Mucosal Immunology. His research efforts in the fields of infectious disease, gut microbiome, and innate, developmental and mucosal immunity continue to lead the way in veterinary immunology research. Please join us in congratulating Dr. Griebel at the presentation of his award, immediately preceding his presentation entitled “*First encounters: Mucosal immune system development and the microbiome*” on Monday, December 7, 2015 (1:30 PM – 5th floor, Salons F/G/H) at CRWAD. The Distinguished Veterinary Immunologist award was sponsored by The American Association of Immunologists (AAI).

Secretary’s Note

By Carol Chitko-McKown

Election results 2015: Voting for the AAVI 2015 elections closed on October 26th with 19 out of 87 members in good standing voting. The results are as follows:

Vice President – George Mutwiri

Board Member at Large – Alan Young

Nomination Committee Members – Mayara Maggioli & Corwin Nelson

These individuals will assume their new positions as of January 1, 2016.

Membership: At this point in time, we have 90 members in good standing. Many members pay their dues at the annual business meeting so we will once again collect payments there. I will have sheets prepared for those paying and who have already paid to write down their names, institutional affiliation, and preferred email address. Several emails bounced back to me when I sent out the ballots this year and I would like to prevent that from happening as much as possible. AAVI will also send out

a “membership reminder and request for payment of dues” because some members have indicated that this is required for them to pay out of their research funds. If there are any other special requests that will make your dues payments easier, please let me know! AAVI dues will remain \$50 for regular members, and \$20 for students. Online access to Veterinary Immunology and Immunopathology (VII) is available to either full or student members for an additional \$52.50 per year. You may pay it online or fill out a membership application form and mail it along with your check to Glenn Zhang (glenn.zhang@okstate.edu). Further details at: <http://theaavi.org/Membership.htm>. You can also pay online anytime at <http://theaavi.org>.

AAVI Board Meeting: The AAVI Annual Board Meeting will be held on Sunday, December 6, 2015 prior to CRWAD. For the first time we will meet from 1 – 5 PM rather than in the morning. We are currently scheduled in the Indiana/Iowa Room on the 5th floor. Do check the hotel schedule when you check in just in case a last minute change is made.

AAVI Business Meeting: The 2015 AAVI Business Meeting will again be held at the **Weber Grill Restaurant**, 539 N. State Street, on **Monday, December 7, 2015** immediately following the morning CRWAD session, and prior to the DVI presentation. All are welcome to attend. If you know of anyone who is considering joining AAVI, this is an excellent chance for them to see our group in action and to meet many of our friendly and helpful members! If you would like to attend, please send an email to glenn.zhang@okstate.edu, so he has an accurate head count. The meal is family style and will include vegetarian and non-vegetarian dishes. A great meal and great company for only \$25 (payable at the door, or stop by our AAVI table and pay in advance)!

Treasurers Report

By Glenn Zhang

This is my second year on the job! With the help of Dr. Gina Pighetti and many others, things are getting back in order! The following table is a quick rundown of the balance changes to the two AAVI bank accounts (checking and 18-month CD) from January 1 to November 23, 2015. Please let me know if you have any comments, questions or concerns.

CHECKING ACCOUNT	\$\$\$
Beginning balance (as of 01/01/2015)	18,680.06
Ending balance (as of 11/23/2015)	19,253.83
Income:	
2015 Membership Dues (minus PayPal transaction fees)	1518.6
2015 Student presentation award check from the AAI	1425
Total	2943.6
Expenses:	
2015 Speaker fees for the AAI-VIC Symposium	-1680.07
2014 AAVI 2nd place poster award	-150
2015 WEBER GRILL AAVI luncheon reservation	-300
2015 AAVI web hosting fee from iPage	-239.76
Total	-2369.83
Account Balance (as of 11/23/2015)	19253.83
18-MONTH OPT-UP CD	
Current balance (as of 11/23/2015)	\$15,175.49
Date opened	6/11/2012
Last renewal date	6/11/2015
Next maturity date	12/11/2016
Beginning balance this term	\$15,169.77
Interest rate	0.09%

My appreciation goes out to our individual members. It is with your dues support that we are able to make progress on our goals to develop, promote, and disseminate knowledge in veterinary immunology. Also, we are grateful for the generous support from our sister organization, American Association of Immunologists (AAI), which again has provided funds for the graduate student poster and oral presentation awards this year at CRWAD.

However, I'd like to remind everyone that there is no corporate membership so far this year. We need everyone to step out and actively recruit. Please check with our secretary, Dr. Carol Chitko-Mckown, should you need a sample letter for corporate support. Thank you for your support of the AAVI!

Constitution and By-laws

The constitution and by-laws committee met on October 16, 2015. The committee members were Susan Eicher, chair; Scott McVey, and Amelia Woolums.

The committee will bring several recommendations before the board in the Dec., 2015 meeting. If they are approved, they will be presented to the membership for a vote at the 2016 meeting according to the current constitution and by-laws.

Meeting Reports

By Crystal Loving

Keystone Symposia Immunity to Veterinary Pathogens: Informing Vaccine Development

Held: January 20-25, 2015
Keystone, Colorado

The hard work and dedication of a few fellow immunologists resulted in an amazing first Keystone Symposia on veterinary pathogens and vaccines. The inaugural meeting was held in the namesake city, Keystone, Colorado during prime slope time! Dr.'s William (Bill) Golde (ARS-Plum Island, US), Wendy Brown (Washington State University, US) and Ivan Morrison (University of Edinburgh, UK) brought together a number of North American and European immunologists, as well as researchers from other countries, working on infectious diseases of food animals. The meeting highlighted the benefit of performing vaccine studies in natural hosts, as well showcasing the value of large animal models for the study of zoonotic agents, such as TB and influenza. It included sessions on □□ T-cells, mucosal immunity, immune responses to vector-borne pathogens, and included presentations from leaders in respective fields and trainees from different labs. The Keystone Symposia schedule provided ample time to mingle with colleagues and set up new collaborations, either over coffee or while exploring all the area had to offer (skiing, tubing, snowshoeing, etc). We appreciate the efforts of the organizers, as well as those that actively participated throughout the meeting (<http://www.keystonesymposia.org/15A3>). We look forward to the next Keystone Symposia related to veterinary immunology, stay tuned for more information!

Upcoming Meeting Announcements

Conference for Research Workers in Animal Diseases (CRWAD),

December 6-8, 2015, Chicago Marriott
Downtown Magnificent Mile.

CRWAD AAVI Mini-Symposium:

Mucosal Immunology

*By Radhey Kaushik, Chair
and Aradhya Gourapura, Co-Chair*

The 2015 AAVI mini-symposium at 2015 CRWAD, Chicago IL, will be held on Monday December 7 from 1:45 - 4:15pm. The mini-symposium focuses on the importance and significance of mucosal immunology in food animal species in designing novel intervention strategies against pathogens.

Confirmed Speakers Include:

- 1. Christopher Chase**, *South Dakota State University*, title: "Mucosal immunology: microbial interaction and cytokine production."
- 2. Oriol Sunyer**, *University of Pennsylvania*, title: "An essential role of IGT for pathogen clearance and microbiome homeostasis at mucosal surfaces of fish."
- 3. Randy Sacco**, *National Animal Disease Center* at Ames Iowa, title: "Inflammatory mediator expression in lung epithelial cells and α/β T cells: roles in immuno-pathogenesis associated with respiratory syncytial virus infection in calves."
- 4. Michael Wannemuehler**, *Iowa State University*, title: "From Swine Dysentery to inflammatory bowel diseases: Role of the resident microbiota in tuning the host response."

2015 AAVI Student Presentation Competition at CRWAD

By Aradhya Gourapura, Chair,
AAVI Awards Committee

The 2015 AAVI Student Presentation Competition will again be sponsored by AAI during the 96th annual meeting of CRWAD, December 6-8, in Chicago, Illinois. Oral and poster presentation categories will be judged. The first, second and third place presenters in both categories will be announced at the awards ceremony at the end of the meeting, please attend and be recognized. Awards for the best student oral presentations will be **\$500**, **\$250** and **\$100**, and for poster presentation **\$350**, **\$150** and **\$75** for first, second and third place respectively. All awardees will be offered AAVI and AAI membership.

Winners of the 2014 AAVI Student Presentation Competition Awards

Oral, 1st Place: V. Mavangira,
Michigan State University

Oral, 2nd Place: J.J. Rivera Rivas,
UW-Madison

Oral, 3rd Place: D. Magstadt,
South Dakota State Univ.

Poster, 1st Place: V.E. Ryman,
Michigan State University

Poster, 2nd Place: K. Rahman,
Auburn University

Poster, 3rd Place: H. Sun,
Univ. Nebraska-Lincoln

Please note: entry into the AAVI Student Presentation Competition at CRWAD requires the student and/or mentor to be an AAVI member in good standing (as defined by dues paid in the last 3 years).

Judges Needed for Student Presentation Competition

If you would like to contribute as a judge on the AAVI student awards committee at CRWAD over oral or poster presentations please contact me (gourapura.1@osu.edu).

At least three judges are assigned to judge each contestant, and the three presentations in each category earning the highest overall scores capture the awards.

Oral Presentation Judging Criteria

Impact of research - 10 points

- The student clearly presented the importance of research problem and/or disease conditions being addressed.

Abstract - 25 points

- The abstract was well written.
- The abstract clearly reflected the research presented.
- The abstract had a clearly defined conclusion.

Actual data - 40 points

- The experimental design, procedures and methods were clearly stated.
- The quality and quantity of the experiments was appropriate.
- Appropriate controls and statistical methods were utilized.
- Conclusions were reflective of the data presented.

Presentation – 25 points

- The presentation was well organized and clearly delivered.
 - There was adequate/ordered introduction, results and conclusions.
 - All the figure and tables clearly explained.
- The slide presentation was of high quality
 - Figures and tables easy for the audience to interpret.
 - Slides were easily read at the back of the large presentation rooms.
- The amount of information presented was appropriate
 - Too few or too many slides?
 - Too much text?
- Student used good public speaking technique.

- Presentation was delivered in the allocated time.
 - Generally 10 – 12 minutes.
 - There was adequate time for questions.
- Responses to questions demonstrated the student's ability to defend the work.

- The poster was easily read from 3 feet away.
- Appealing presentation.
- The amount of information presented was appropriate
 - Too few or too many panels?
 - Too much text?
- Responses to questions demonstrated the student's ability to defend the work.

Poster Presentation Judging Criteria

Impact of research - 10 points

- The student clearly presented the importance of research problem and/or disease conditions being addressed.

Abstract - 25 points

- The abstract was well written.
- The abstract clearly reflected the research presented.
- The abstract had a clearly defined conclusion.

Actual data - 40 points

- The experimental design, procedures and methods were clearly stated.
- The quality and quantity of the experiments was appropriate.
- Appropriate controls and statistical methods were utilized.
- Conclusions were reflective of the data presented.

Presentation – 25 points

- The presentation was well organized.
 - There was adequate/ordered introduction, results and conclusions such that the reader could understand the poster in the absence of the presenter.
 - If asked, the student made a short presentation utilizing the poster.
- The poster presentation was of high quality
 - In the absence of the student, the reader could interpret figures and tables.

Some helpful hints for contestants:

The judges really do keep track of time – it's much better to be a little under and have time for questions than to be over and not have time for any. Be sure your lab-mates and advisors sit in while you practice – they will be able to catch errors on your slides/posters, and can suggest sections where you might need better explanations. Can your colleagues read your slides/poster? If they can't, the judges sure can't!

Too much information on a poster really can be a bad thing. We know you've done a great deal of work, but some of it may just have to wait for another occasion to show off. Sometimes, less is more! Dress for success – this is a professional meeting and is your time to shine. Finally, be courteous to everyone in your audience. You may not know who the judge is.

When you are presenting (oral/poster) remember to have your name badge all the time and introduce yourself as a graduate student/postdoc.

Good luck and see you soon at the AAVI symposium!

VIC/AAVI Joint Symposium at AAI 2016



(<http://www.immunology2016.org>)

Washington State Convention Center
Seattle, Washington
Saturday, May 14, 2016
12:30 PM – 2:30 PM



Title: “*Vaccination: the balance between immunity and pathogenesis*”

Chairs:

Laurel J. Gershwin, University of California, Davis

Laura C. Miller, National Animal Disease Center, ARS, USDA

This year’s symposium will focus on the challenge in designing viral vaccines of attenuating virulence while retaining protective immunogenicity, using examples from both human and veterinary medicine. Research highly relevant to infant immunization will highlight the use of probiotics to enhance vaccine responses to human rotavirus using a germ free piglet model. An example of how understanding the unique pathogenesis of a pathogen can ultimately lead to a successful vaccine will be highlighted in the story of “foothill abortion” in western states cattle. Finally researchers in pestiviruses and bovine herpes viruses will share how understanding

protective immunity and viral pathogenesis is critical for development of effective vaccines.

Confirmed Speaker Presentation Topics:

- **Linda Saif** - probiotic use to enhance rotavirus vaccine efficacy in a germ-free neonatal piglet model
- **Jeff Stott** - development of vaccine for foothill abortion
- **Julia Ridpath** - BVDV vaccination
- **Shafiqul Chowdhury**- bovine herpesvirus 1 (BHV-1) - Induction of protective immunity, pathogenesis and immune evasion mechanisms

International Veterinary Immunology Symposium 2016 (IVIS 2016)



Veterinary Immunology: Connecting animals, humans and the land

www.ivis2016.org

The 2016 IVIS will be held at the Gold Coast Convention Centre, The Gold Coast, Australia, August 16-19, 2016

Abstract and early bird registration deadline:

May 22, 2016

By Joan Lunney

On behalf of the Organising Committee we have great pleasure in inviting you to IVIS 2016. The IVIS2016 promises to be a remarkable experience. Research in Veterinary Immunology is growing rapidly, with new developments and exciting research breakthroughs. This conference aims to bring together researchers in the field of Veterinary Immunology, uniting the

areas of immunology and animal health, as well as the issues around clinical treatments.

The IVIS 2016 Conference organising committee is preparing for you an impressive program that will encourage plenty of scientific exchange and discussion. To complement the science, we have selected an excellent 4 star waterfront conference facility.

Topics will include:

- Acquired immunity
- Biosecurity
- Clinical immunology
- Diagnostics
- Ecoimmunology
- Functional genomics
- Infectious disease
- Inflammation
- Innate immunity
- Metabolic control
- Molecular Immunology
- Mucosal immunology
- Parasitology
- Viral immunology
- Vaccines
- Zoonosis



The IVIS 2016 offers an ideal occasion to discover Australia. Visit and enjoy all that Queensland's the Gold Coast has to offer - from the beautiful beaches to the amazing hinterland. The IVIS 2016 has something to offer for everyone. Under registration, go to "keep me posted" to be kept in the loop.

The International Congress of Immunology will be held the following week, 21st - 26th August, 2016, in Melbourne. See below for more details.

International Congress of Immunology 2016 (ICI 2016)



Immunotherapy: Harnessing the Power of the Immune System

www.ici2016.org

The 2016 ICI will be held at the Melbourne Convention & Exhibition Centre, South Wharf, Victoria, Australia August 21-26, 2016

Abstract deadline: **January 25, 2016**

Early bird and author registration deadline: **May 11, 2016**



Travel grants: There are a number of travel awards available at different levels if you are an AAI member. That information can be found at the AAI website (www.aai.org) or the ICI web site (www.ici2016.org).

AAVI Officers and Board - 2015

President: Crystal Loving, USDA-ARS, crystal.loving@ars.usda.gov.

President Elect: Laura Miller, USDA-ARS, NADC, laura.miller@ars.usda.gov

Vice President: Radhey Kaushik, South Dakota State University, radhey.kaushik@sdstate.edu

Past President: Susan Eicher, USDA-ARS, susan.eicher@ars.usda.gov

Secretary: Carol Chitko-McKown, USDA-ARS, carol.chitkomckown@ars.usda.gov

Treasurer: Glenn Zhang, Oklahoma State University, glenn.zhang@OKstate.edu

Members-at-Large:

Laurel Gershwin (2015), UC Davis, ljgershwin@ucdavis.edu

Philip Griebel (2016), U. of Saskatchewan, Canada, philip.griebel@usask.ca

Radhey Kaushik (2017), South Dakota State University, radhey.kaushik@sdstate.edu

Sheela Ramamoorthy (2017), North Dakota State University, sheela.ramamoorthy@ndsu.edu

Amelia Woolums (2018), Mississippi State University, amelia.woolums@msstate.edu

Nomination Committee (Elected by membership)

Paige Adams (2015), U. of Texas Medical Branch, Galveston. apadams@utmb.edu

Alan Young (2015) South Dakota State University, alan.young@sdstate.edu

Linda Saif (2016) Ohio State University., saif.2@osu.edu

Chris Chase (2016) South Dakota State University, christopher_chase@sdstate.edu

Diego Diel (2017) South Dakota State University, diego.diel@sdstate.edu

Jodi McGill (2017) Kansas State University, jlmcgill@vet.k-state.edu

Fund Raising Committee

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Paul Coussens, Michigan State University, coussens@msu.edu

John Lippolis, USDA-ARS, john.lippolis@ars.usda.gov

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Scott McVey, USDA-ARS, scott.mcvvey@ars.usda.gov

Amelia Woolums, Mississippi State University, amelia.woolums@msstate.edu

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